AMERICAN UNIVERSITY OF BEIRUT OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN: DIRECTOR

HALIM HOURANI, OBSERVER

BEIRUT, LEBANON

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

October 1959

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WEATHER BUREAU

OCTOBER 1959

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20.30	Mean
1	60.1	60.1	60.8	60.3	29.0	20.7	24.6	28.0	23.0	25.2
2	60.9	60.4	61.1	60.8	28.8	20.4	23.5	27.8	23.2	24.8
3	61.5	61.7	62.3	61.8	25.4	20.0	22.0	23.5	22.5	22.7
4	62.5	62.0	62.2	62.2	24.8	19.1	23.0	23.5	21.5	22.7
5	62.3	60.8	61 4	61.5	24.4	19.1	21.3	23.9	20.5	21.9
6	61.5	60 6	60.9	61.0	25.5	19.6	21.7	23.4	21.5	22.2
7	61.0	60.7	60.8	60.8	25.6	20.4	21.7	24.0	21.0	22.2
8	61.3	60.9	61.2	61.1	24.9	20.8	22.4	24.0	23.5	23.3
9	61.7	60.9	61.4	61.3	27.3	20.7	23.4	25.4	23.0	23.9
10	61.7	60.6	60.7	61.0	28.0	19.6	22.5	26.0	21.5	23.3
11	59.3	58.1	58.9	58.8	27.3	19.7	23.5	25.0	22.5	23.7
12	60.0	59.5	59.8	59.8	26.9	19.0	22.3	26.2	21.4	23.3
13	60.0	59.7	60.5	60.1	27.0	19.5	22.4	23.2	20.0	21.9
14	61.2	61.2	62.6	61.7	24.0	18.4	20.8	23.6	20 4	21.6
15	63.5	62.6	62.9	63.0	23.7	18.6	18.7	23.0	20 0	20.6
16	62.2	61.0	61.3	61.5	23.8	19.5	21.2	22.5	20.5	21.4
17	62.1	61.2	61.9	61.7	23.8	19.0	21.7	22.6	21.5	21.9
18	62.3	61.4	62.0	61.9	23.9	18.7	21.1	22.7	21.0	21.6
19	62.1	61.3	62.5	62.0	24 5	18 9	21.2	22.6	21.6	21.8
20	63.0	62.2	62.8	62.7	23.7	19.6	21.4	22.8	22.0	22 1
21	63.8	62.8	62.7	63.1	24.5	19.8	21.6	23.1	22.0	22.2
22	61.6	59.8	59.7	60.3	24.0	19.0	21.7	23.0	20.5	21.7
23	59.5	58.8	59.0	59.1	26.1	19.7	21.6	24.0	21.5	22.4
24	59.2	58.2	59.2	58.9	24.0	19.4	21.2	22.6	20.5	21.4
25	60.2	59.6	60.0	59.9	25.0	19.9	21.0	23.5	23.5	22.7
26	62.7	62.7	63.2	62.9	24.8	17.7	20.4	24.1	20.5	21.7
27	61.9	61.2	62.1	61.7	22.2	16.6	21.9	18.1	17.5	19.2
28	63.8	63.1	63.5	63.5	24.0	17.7	18.7	22.8	19.0	20.2
29	64.3	63.2	63.7	63.7	22.8	17.5	18.8	21.4	19.5	19.9
30	63.7	62.5	63.4	63.2	22 6	18.7	20.2	21.7	20.5	20.8
31	63.8	62.9	63.7	63.5	22.8	19.7	20.9	22.1	21.2	21.4
	61.76	61.02	61.55	61.44	25.00	19.26	21.56	23.55	21.23	22.11

Barometer, range for month 764.3 mm. — 758.1 mm.
„ 71-yr. average for month 761.31mm.
Thermometer, range for month 29.0°C — 16.6°C
„ 82-yr. average for month 23.8°C
Rain total for month 55.61 mm.
„ 82-yr average for month 47.2 mm.
„ Total, Sept. 1st. to end of month 78.50 mm.
, 82-yr average. Sept. 1st. to end of month 53.83 mm.

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Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	23.5	22.0	19.6	21.7	76	58	70	68	8.4	150	0.4
2	19.8	19.4	18.6	19.3	63	52	65	60	9.1	124	
3	16.2	13.2	14.5	14.6	62	45	52	53	6.3	87	
4	13.4	13.2	13.8	13.5	48	45	53	49	9.4	365	
5	14.2	15.3	15.6	15.0	55	52	64	57	9.6	79	
6	13.5	17.6	17.6	16.2	52	61	69	61	9.3	64	
7	15.1	17.5	17.4	16.7	58	59	70	62	9.4	63	
8	13.9	16.6	16.5	15.7	51	56	56	54	9.3	211	
9	15.9	17.7	20.1	17.9	55	54	71	60	9.2	98	
10	21.5	22.2	21.2	21.6	78	66	82	75	9.2	29	
11	21.8	19.4	16.1	19.1	75	62	58	65	7.8	138	
12	17.4	16.6	16.3	16.8	64	49	63	59	7.3	190	0.45
13	16.0	20.4	17.8	18.1	58	71	76	68	7.1	132	3.14
14	21.4	20.4	19.2	20.3	87	71	79	79	6.0	45	14.95
15	20.3	19.6	19.1	19.7	94	70	81	82	9.2	21	16.00
16	17.2	16.8	18.7	17.6	69	62	77	69	9.1	95	
17	17.8	16.2	19.0	17.7	70	59	73	67	5.3	69	0.15
18	17.1	18.8	18.3	18.1	69	69	73	70	10.3	63	
19	18.7	16.9	17.7	17.8	73	63	70	69	10.4	53	
20	18.4	18.9	19.7	19.0	72	69	74	72	10.5	130	
21	19.1	20.2	21.9	20.4	74	71	82	76	9.5	138	
22	18.8	17.9	18 5	18.4	72	64	77	71	9.3	80	
23	16.9	20.1	20.1	19.0	66	68	77	70	8.0	60	
24	18.6	19.0	17.6	18.4	73	70	73	72	7.3	13	
25	14.3	16.5	20.3	17.0	57	56	70	61	8.4	101	
26	20.1	17.2	16.4	17.9	83	57	68	69	4.9	200	1.32
27	13.8	18.1	15.9	15.9	52	88	80	73	2.8	143	13.70
28	17.7	17.6	16.7	17.3	83	64	76	74	8.7	69	5.50
29	14.8	16.3	16.4	15.8	68	63	72	68	9.9	85	
30	14.4	17.0	18.5	16.6	60	66	76	67	10.2	158	
31	18.2	20.5	21.2	20.0	73	77	84	78	9.2	204	
	17.41	18.03	18 07	17.84	67.4	62.5	71.3	67.0	8.40	111.52	1.79

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
71 year averages are for period, 1875-1945

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METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	6cu-st	4cu-st	0	3.3	3sw	3w	1sw	light	
2	1cu	3cu-st	7cu-st	3.7	3sw	3sw	2sw	,,	
3	10st	1cu	0	3.7	1sw	4ne	4ne	slight	
4	3cu	0	1cu	1.3	1ne	2ne	2ne	light	
5	0	0	4cu-st	1.3	3ne	3ne	1ne	,,	
6	0	6cu-st	0	2.0	1e	3ne	1ne	light	
7	0	0	0	0.0	3ne	2ne	1ne	,,	
8	0	0	0	0.0	3ne	4ne	3ne	,,	
9	0	0	0	0.0	2e	2n	1ne	,,	
10	0	0	0	0.0	2w	2nw	1nw	,,	D.a.m
11	2cu-st	5cu-st	2st	3.0	2sw	2sw	2sw	light	
12	10cu-st	4cu-st	10st	8.0	2sw	3sw	1sw	,,	
13	2st	10st	0	4.0	3sw	5w	2w	,,	
14	9cu-st	3cu	1cu-st	4.3	3sw	2sw	2w	,,	
15	10cu-st	0	0	3.3	1e	2ne	1ne	,,	
16	10ci-st	1cu-ci	0	3.7	3ne	3ne	1ne	light	
17	10cu-st	1cu-ci	3ci	4.7	2ne	2ne	2ne	,,	
18	6st-ci	5cu-st	4st	5.0	3ne	3ne	1ne	,,	
19	5cu-st	1ci	9cu-st	5.0	2sw	3ne	3ne	,,	D.a.m.p.m
20	0	0	0	0.0	2ne	3ne	2ne	,,	D.a.m
21	0	0	7cu-st	2.3	2ne	3n	2ne	light	D.a.m.p.m
22	5cu-st	10cu-st	0	5.0	3ne	3ne	1ne	,,	D.a.m
23	0	10st	5cu-st	5.0	2w	3w	1w	,,	D.a.m
24	8ci-st	2ci	0	3.3	1w	1w	1sw	,,	
25	1ci	7st-ci	0	2.7	1se	2ne	3ne	,,	
26	10st-ni	9cu-st	7cu-st	8.7	2sw	3w	1sw	light	
27	9st-ci	10st	5cu-ni	8.0	4sw	3sw	2sw	,,	
28	7cu-st	0	0	2.3	1s	2w	1sw	,,	
29	0	6ci-cu	5cu	2.7	1e	3ne	1ne	,,	D.a.m
30	0	0	1cu	0.3	3ne	3ne	3ne	,,	D.a.m
31	0	0	1cu	0.3	4ne	4ne	2ne	,,	D.a.m.p m
	mean			3.12					

Abbreviations : G = gale ; H = haze ; M = mist ; T = thunderstorm ; D = dew
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	12	4	1	1	10	3	0	0	31
14:30	2	17	0	0	0	5	6	1	0	31
20:30	0	19	0	0	0	8	3	1	0	31
Total	2	48	4	1	1	23	12	2	0	93

Number of days with rain 9, fog 0, thunderstorms 0, gale. 0
71 yr. av. number of days with rain during month 3.84
Time of reading minus 2 hours equals G.C.T